

IN THE CLAIMS

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. When strikethrough cannot easily be perceived, or when five or fewer characters are deleted, [[double brackets]] are used to show the deletion. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Please AMEND claim 21 in accordance with the following:

1. (previously presented) A phosphor comprising a perovskite structure which includes sulfur and satisfies the following relation:



where M is an alkaline earth metal and A is a rare earth element.

2. (previously presented) The phosphor of claim 1, wherein the alkaline earth metal is an element selected from the group consisting of magnesium (Mg), strontium (Sr), calcium (Ca), and barium (Ba).

3. (original) The phosphor of claim 1, wherein the rare earth element is an element selected from the group consisting of cerium (Ce), praseodymium (Pr), europium (Eu), terbium (Tb), and thulium (Tm).

4. (original) The phosphor of claim 1, wherein the rare earth element added to the phosphor is in a range of 0.05 - 5 mol % based on 1 mol of Ti.

5. (original) The phosphor of claim 1, further comprising a Group 13 element of the periodic table.

6. (original) The phosphor of claim 5, wherein the Group 13 element added to the phosphor is in a range of 0.05 – 80 mol % based on 1 mol of Ti.
7. (original) The phosphor of claim 5, wherein the phosphor is one of $\text{SrTiO}_3\text{:Pr,Al}$ which includes the sulfur and $\text{SrTiO}_3\text{:Pr,Ga}$ which includes the sulfur.
8. (original) The phosphor of claim 5, wherein the Group 13 element is one selected from the group consisting of aluminum (Al), gallium (Ga), indium (In), and thallium (Tl).
9. (original) The phosphor of claim 8, wherein the Group 13 element added to the phosphor is in the range of 0.05 - 80 mol % based on 1 mol of Ti.
10. (previously presented) The phosphor of claim 1, wherein the sulfur contained in the phosphor is added in a form of a sulfur element or an alkaline metal sulfur-containing compound.
11. (previously presented) The phosphor of claim 10, wherein the alkaline metal sulfur-containing compound is one of: $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ and Na_2SO_4 .
12. (original) The phosphor of claim 1, wherein the sulfur contained in the phosphor is in the range of 0.1 – 10 wt % based on a total weight of the phosphor.
13. (previously presented) The phosphor of claim 1, wherein

the alkaline earth metal is an element selected from the group consisting of Mg, Sr, Ca, and Ba, and

the rare earth element is an element selected from the group consisting of Ce, Pr, Eu, Tb, and Tm.

14. (previously presented) The phosphor of claim 13, wherein the sulfur contained in the phosphor is added in a form of a sulfur element or an alkaline metal sulfur-containing compound.

15. (original) The phosphor of claim 14, wherein the rare earth element added to the phosphor is in a range of 0.05 – 5 mol % based on 1 mol of Ti.

16. (original) The phosphor of claim 15, wherein the sulfur contained in the phosphor is in a range of 0.1 – 10 wt % based on a total weight of the phosphor.

17. (previously presented) The phosphor of claim 15, wherein the alkaline metal sulfur-containing compound is $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ or Na_2SO_4 .

18. (original) The phosphor of claim 17, further comprising a Group 13 element selected from the group consisting of Al, Ga, In, and Tl.

19. (original) The phosphor of claim 18, wherein the Group 13 element added to the phosphor is in a range of 0.05 – 80 mol % based on 1 mol of Ti.

20. (original) The phosphor of claim 19, wherein the phosphor is one of $\text{SrTiO}_3:\text{Pr},\text{Al}$ which includes the sulfur and $\text{SrTiO}_3:\text{Pr},\text{Ga}$ which includes the sulfur.

21. (currently amended) A phosphor with a titanate host matrix having a perovskite structure which includes sulfur, an alkaline earth metal and a rare earth element, wherein sulfur atoms partially substitute oxygen atoms so as to vary lattice parameters of the phosphor.

22. (previously presented) A fluorescent display device comprising a phosphor comprising a perovskite structure which includes sulfur and satisfies the following relation:



where M is an alkaline earth metal and A is a rare earth element.

23. (original) The fluorescent display device of claim 22, wherein the fluorescent display device is one of a field emission display and a vacuum fluorescent display.